CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No 12/KMR/STEEL/2016-17 07.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
Name of the Work	:	Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	EE/DD/WO/406/2014-15 Dated: 31.03.2015
Date of Test	:	07.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	514	557	13.30	O.K	O.K

Note:

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Job No.: CTCE/BBMP/W.No 12/KMR/STEEL/2016-17 07.04.2016
TEST REPORT ON REINFORCEMENT STEEL
Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Mr. K.M. Ravi No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
Name of the Work : Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/406/2014-15 Dated: 31.03.2015
Date of Test : 07.04.2016
Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	517	561	13.45	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CUBE/2016-17 13.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/406/2014-15 Dated. 31.03.2015

*** Sample ID** : Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 13.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.04.2016	13.05.2016	8.190	478.2	21.25
2	15.04.2016	13.05.2016	8.256	502.3	22.32
3	15.04.2016	13.05.2016	8.336	526.3	23.39

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CUBE/2016-17 14.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/406/2014-15 Dated. 31.03.2015

*** Sample ID** : Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 14.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2016	14.05.2016	8.099	478.8	21.28
2	16.04.2016	14.05.2016	8.129	499.6	22.20
3	16.04.2016	14.05.2016	8.236	523.1	23.25

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CUBE/2016-17 16.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/406/2014-15 Dated: 31.03.2015

*** Sample ID** : Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 16.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2016	16.05.2016	8.478	475.5	21.13
2	18.04.2016	16.05.2016	8.392	485.3	21.57
3	18.04.2016	16.05.2016	8.251	496.3	22.06

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CUBE/2016-17 18.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/406/2014-15 Dated: 31.03.2015

*** Sample ID** : Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 18.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2016	18.05.2016	8.477	526.4	23.40
2	20.04.2016	18.05.2016	8.352	505.3	22.46
3	20.04.2016	18.05.2016	8.213	485.5	21.58

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CUBE/2016-17 23.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Construction of culverts at Chikkasandra, Medarahalli & Kanmagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/406/2014-15 Dated: 31.03.2015

*** Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28^{th} day

Sample Received on : 23.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2016	23.05.2016	8.125	486.9	21.64
2	25.04.2016	23.05.2016	8.211	498.6	22.16
3	25.04.2016	23.05.2016	8.169	516.4	22.95

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AE-12

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CUBE/2016-17 25.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Construction of culverts at Chikkasandra, Medarahalli & Kanmagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/406/2014-15 Dated: 31.03.2015

*** Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28^{th} day

Sample Received on : 25.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2016	25.05.2016	8.215	478.9	21.28
2	27.04.2016	25.05.2016	8.326	489.6	21.76
3	27.04.2016	25.05.2016	8.287	501.7	22.30

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Ravi.N.K.
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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/CEMENT/2016-17 Date: 04.04.2016

TEST REPORT ON CEMENT

*CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
*NAME OF THE WORK	:	Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/406/2014-15 Dated: 31.03.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.04.2016
PERIOD OF TESTING	:	02.04.2016 to 04.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/SAND-Gradation/2016-17 : 04.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*Agency	: **Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
*Name of Work	: Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/406/2014-15 Dated: 31.03.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 02.04.2016
Date of Testing	: 04.04.2016

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.86	90-100	90-100	90-100	95-100
2.36	77.13	60-95	75-100	85-100	95-100
1.18	49.67	30-70	55-90	75-100	90-100
600 Micron	20.02	15-34	35-59	60-79	80-100
300 Micron	8.39	5-20	8-30	12-40	15-50
150 Micron	3.01	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-04/002p/AGG/GR/2016-17 : 04.04.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
* Name of Work	: Construction of culverts at Chikkasandra, Medarahalli & Kammagondanahalli in different locations in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/406/2014-15 Dated: 31.03.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 02.04.2016
Date of Testing	: 04.04.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.39	95-100	85-100
20	35.17	30-70	0-20
10	13.15	10-35	0-5
4.75	1.97	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/KMR/STEEL/2016-17 07.04.2016

TEST REPORT ON REINFORCEMENT STEEL

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Agency	:	**Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
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Reference	:	EE/DD/WO/406/2014-15 Dated: 31.03.2015
Date of Test	:	07.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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